



## CALIFORNIA WORKFORCE INVESTMENT BOARD

### Workforce Needs for Large Scale Solar Projects

#### San Diego County

San Diego County (San Diego-Carlsbad-San Marcos MSA)	Current Month July 2010 Labor Market Statistics	2009 Annual Average Labor Market Statistics	2008 Annual Average Labor Market Statistics
Labor Force (Employed & Unemployed)	1,580,400	1,557,400	1,555,100
Employed	1,408,900	1,406,100	1,462,300
Unemployed	171,400	151,300	92,900
Unemployment Rate	10.8%	9.7%	6.0%
<b>Industry Employment related to Solar Industry</b>			
Construction	58,900	61,100	76,100
Utilities	7,400	7,200	6,900

Source: EDD/LMID, Current Employment Statistics, [www.labormarketinfo.edd.ca.gov](http://www.labormarketinfo.edd.ca.gov)

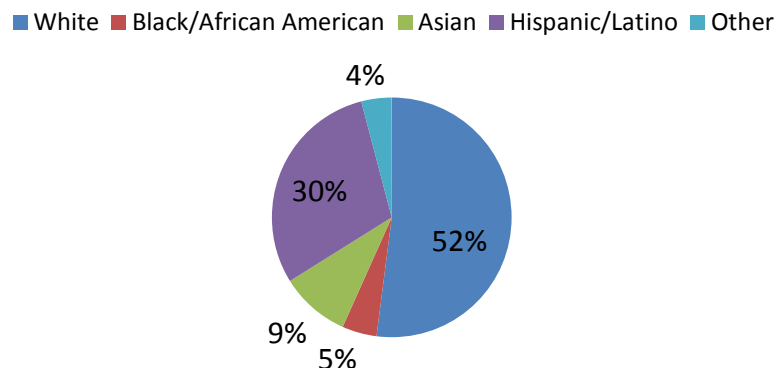
79 Registered Apprenticeship Programs and 3,199 Apprentices in the Construction Industry.

Source: Department of Industrial Relations, [www.dir.ca.gov](http://www.dir.ca.gov), data generated Sep. 13, 2010.

#### Local Workforce Investment Board

San Diego Workforce Partnership  
Mr. Mark Cafferty, President and CEO  
3910 University Avenue, Suite 400  
San Diego, CA 92105  
(619) 228-2900  
FAX (619) 528-1151  
[www.sandiegatwork.com](http://www.sandiegatwork.com)

#### San Diego County Demography 2008



Source: Department of Finance, Ethnic Population Estimates, [www.dof.ca.gov](http://www.dof.ca.gov)



## CALIFORNIA WORKFORCE INVESTMENT BOARD

### Local Resources San Diego County

#### **Bonita Sunnyside Branch**

Bonita Sunnyside Public Library  
4375 Bonita Road Bonita, CA 91902  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(619) 472-6602

#### **South County Career Center**

1111 Bay Boulevard, Suite E Chula Vista, CA 91911  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(619) 628-0300  
*Hours:* Monday - Friday 8 a.m. to 5 p.m.

#### **East County Career Center**

924 East Main Street El Cajon, CA 92021  
<http://eccc.guhsd.net>  
(619) 590-3900  
*Hours:* 8:00 AM to 5:00 PM

#### **North County Inland Career Center**

463 N. Midway Escondido, CA 92027  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(760) 871-1962  
*Hours:* Monday - Friday 8 a.m. to 5 p.m.

#### **North County Coastal Career Center**

1949 Avenida del Oro, Ste. 106 Oceanside, CA 92056  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(760) 631-6150  
*Hours:* Monday - Friday 8 a.m. to 5 p.m.

#### **South Metro / Grant Hill Branch**

3295 Market Street San Diego, CA 92102  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(619) 233-6829  
*Hours:* Monday - Friday 8 a.m. to 5 p.m.

#### **San Diego Metro Career Center**

3910 University Ave. San Diego, CA 92105  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(619) 516-2200  
*Hours:* Monday - Friday 8 a.m. to 5 p.m.

#### **San Diego South Metro Career Center**

4389 Imperial Avenue San Diego, CA 92113  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(619) 266-4200

#### **Spring Valley Library One-Stop Career Center Branch**

836 Kempton Street Spring Valley, CA 91977  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(619) 667-0133  
*Hours:* Monday - Thursday 9:30 am-5:30 pm, Fri 9:30 am-5 pm

#### **Vista Branch**

Vista Townsite Community Partnership  
642 Vista Village Drive Vista, CA 92084  
[www.sandiegoatwork.com](http://www.sandiegoatwork.com)  
(760) 806-8980  
*Hours:* Monday - Friday 8:00 - 5:00

Construction Industry-San Diego County (San Diego-Carlsbad-San Marcos,MSA)		2010/1st QTR Wages		
SOC Code	Occupational Title	May 2009 Employment Estimates	Mean Hourly Wage	Mean Annual Wage
11-1011	Chief Executives	220	87.69	182,392.00
11-1021	General and Operations Managers	1520	61.77	128,480.00
11-2021	Marketing Managers	(3)	80.72	167,895.00
11-2022	Sales Managers	(3)	63.75	132,615.00
11-3011	Administrative Services Managers	60	54.75	113,878.00
11-3031	Financial Managers	(3)	69.87	145,333.00
11-3061	Purchasing Managers	(3)	65.52	136,271.00
11-9021	Construction Managers	1570	53.30	110,865.00
11-9041	Engineering Managers	60	58.83	122,366.00
11-9141	Property, Real Estate, and Community Association Managers	130	54.74	113,859.00
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	170	27.99	58,230.00
13-1051	Cost Estimators	1270	34.74	72,255.00
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	(3)	34.59	71,938.00
13-1111	Management Analysts	(3)	47.61	99,030.00
13-1199	Business Operations Specialists, All Other	430	26.23	54,557.00
13-2011	Accountants and Auditors	530	39.89	82,984.00
15-1041	Computer Support Specialists	(3)	29.00	60,308.00
15-1071	Network and Computer Systems Administrators	(3)	31.86	66,277.00
17-1011	Architects, Except Landscape and Naval	(3)	36.93	76,800.00
17-2051	Civil Engineers	430	37.12	77,210.00
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	(3)	44.83	93,250.00
17-3011	Architectural and Civil Drafters	110	28.76	59,817.00
17-3012	Electrical and Electronics Drafters	60	29.86	62,098.00
17-3013	Mechanical Drafters	(3)	25.06	52,119.00
17-3022	Civil Engineering Technicians	30	23.63	49,161.00
19-3021	Market Research Analysts	50	35.08	72,976.00
27-1025	Interior Designers	60	27.07	56,323.00
29-9011	Occupational Health and Safety Specialists	(3)	42.28	87,956.00
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	100	11.60	24,144.00
37-3011	Landscaping and Groundskeeping Workers	50	11.18	23,249.00
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	(3)	46.39	96,479.00
41-2021	Counter and Rental Clerks	30	18.99	39,499.00
41-3099	Sales Representatives, Services, All Other	860	30.26	62,952.00

Construction Industry-San Diego County (San Diego-Carlsbad-San Marcos,MSA)		2010/1st QTR Wages		
SOC Code	Occupational Title	May 2009 Employment Estimates	Mean Hourly Wage	Mean Annual Wage
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Sci	230	34.23	71,187.00
41-9022	Real Estate Sales Agents	90	35.67	74,196.00
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	710	28.44	59,162.00
43-3021	Billing and Posting Clerks and Machine Operators	120	19.97	41,536.00
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1080	20.76	43,183.00
43-3051	Payroll and Timekeeping Clerks	280	19.67	40,928.00
43-3061	Procurement Clerks	(3)	16.61	34,542.00
43-4051	Customer Service Representatives	380	18.20	37,858.00
43-4071	File Clerks	(3)	12.13	25,228.00
43-4131	Loan Interviewers and Clerks	(3)	18.52	38,523.00
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	60	19.64	40,861.00
43-4171	Receptionists and Information Clerks	380	15.42	32,061.00
43-5032	Dispatchers, Except Police, Fire, and Ambulance	210	19.63	40,830.00
43-5061	Production, Planning, and Expediting Clerks	210	22.78	47,398.00
43-5081	Stock Clerks and Order Fillers	110	14.61	30,400.00
43-6011	Executive Secretaries and Administrative Assistants	930	22.93	47,675.00
43-6014	Secretaries, Except Legal, Medical, and Executive	760	17.02	35,402.00
43-9061	Office Clerks, General	1600	13.91	28,913.00
43-9199	Office and Administrative Support Workers, All Other	30	15.21	31,635.00
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	5000	38.24	79,530.00
47-2021	Brickmasons and Blockmasons	(3)	29.02	60,358.00
47-2022	Stonemasons	(3)	20.88	43,449.00
47-2031	Carpenters	6730	23.75	49,388.00
47-2041	Carpet Installers	290	17.54	36,483.00
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	400	18.59	38,681.00
47-2043	Floor Sanders and Finishers	(3)	19.18	39,902.00
47-2044	Tile and Marble Setters	750	23.52	48,917.00
47-2051	Cement Masons and Concrete Finishers	1280	28.54	59,377.00
47-2061	Construction Laborers	6800	19.36	40,277.00
47-2071	Paving, Surfacing, and Tamping Equipment Operators	830	27.72	57,656.00
47-2073	Operating Engineers and Other Construction Equipment Operators	1780	31.68	65,886.00
47-2081	Drywall and Ceiling Tile Installers	2250	24.72	51,415.00
47-2082	Tapers	480	22.54	46,876.00

Construction Industry-San Diego County (San Diego-Carlsbad-San Marcos,MSA)		2010/1st QTR Wages		
SOC Code	Occupational Title	May 2009 Employment Estimates	Mean Hourly Wage	Mean Annual Wage
47-2111	Electricians	4830	24.10	50,135.00
47-2121	Glaziers	280	30.81	64,066.00
47-2131	Insulation Workers, Floor, Ceiling, and Wall	(3)	19.79	41,166.00
47-2132	Insulation Workers, Mechanical	170	18.80	39,097.00
47-2141	Painters, Construction and Maintenance	3090	21.26	44,228.00
47-2151	Pipelayers	290	21.91	45,567.00
47-2152	Plumbers, Pipefitters, and Steamfitters	3250	25.31	52,647.00
47-2161	Plasterers and Stucco Masons	730	21.62	44,964.00
47-2181	Roofers	880	20.40	42,427.00
47-2211	Sheet Metal Workers	1280	24.13	50,192.00
47-2221	Structural Iron and Steel Workers	310	22.60	47,005.00
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	700	14.21	29,567.00
47-3012	Helpers--Carpenters	320	14.91	31,018.00
47-3013	Helpers--Electricians	640	14.38	29,910.00
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	250	11.42	23,759.00
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	420	15.94	33,138.00
47-3016	Helpers--Roofers	70	11.11	23,097.00
47-3019	Helpers, Construction Trades, All Other	50	14.68	30,538.00
47-4011	Construction and Building Inspectors	40	26.06	54,205.00
47-4099	Construction and Related Workers, All Other	500	18.00	37,449.00
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	280	33.68	70,054.00
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	(3)	23.54	48,962.00
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	70	23.11	48,082.00
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	260	30.41	63,247.00
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1030	24.21	50,352.00
49-9042	Maintenance and Repair Workers, General	200	21.83	45,396.00
49-9044	Millwrights	(3)	33.59	69,871.00
49-9052	Telecommunications Line Installers and Repairers	(3)	17.51	36,421.00
49-9098	Helpers--Installation, Maintenance, and Repair Workers	70	17.28	35,947.00
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	30	30.18	62,780.00
51-2041	Structural Metal Fabricators and Fitters	190	16.01	33,293.00
51-4121	Welders, Cutters, Solderers, and Brazers	520	21.93	45,604.00
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	80	13.74	28,573.00

Construction Industry-San Diego County (San Diego-Carlsbad-San Marcos,MSA)		2010/1st QTR Wages		
SOC Code	Occupational Title	May 2009 Employment Estimates	Mean Hourly Wage	Mean Annual Wage
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Har	(3)	19.39	40,337.00
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine	(3)	34.40	71,549.00
53-3032	Truck Drivers, Heavy and Tractor-Trailer	500	22.37	46,532.00
53-3033	Truck Drivers, Light or Delivery Services	130	16.07	33,426.00
53-7021	Crane and Tower Operators	70	35.54	73,925.00
53-7032	Excavating and Loading Machine and Dragline Operators	120	28.26	58,768.00
53-7051	Industrial Truck and Tractor Operators	130	24.92	51,841.00
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	520	14.82	30,830.00
Source:	EDD/LMID,OES Staffing Patterns, <a href="http://www.labormarketinfo.edd.ca.gov">www.labormarketinfo.edd.ca.gov</a>			

Data Footnotes:

- (1) The "Mean Relative Standard Error" is a measure of the relative precision of the wage estimate. A low number denotes relatively high validity.
  - (2) For some occupations, workers may not work full-time all year-round. For these occupations it is not feasible to calculate an hourly wage.
  - (3) An estimate of employment could not be provided.
  - (4) An estimate of wage could not be provided.
  - (5) There is wide variation in the number of hours worked by those employed as actors, dancers, musicians, and singers.  
Many jobs are for a duration of 1 day or 1 week and it is extremely rare for a performer to have guaranteed employment for a period that exceeds 3 to 6 months.
- \* The survey reference dates for this data spanned from the 4th quarter 2006 to the 2nd quarter 2009. A substantial amount of the data was collected at a time when California minimum wage was below the current minimum wage of \$8.00 per hour. Since these wages were updated to 2010, and the minimum wage changed to \$8.00 per hour on January 1, 2008, wages below \$8.00 were set to \$8.00 per hour